

Microcystin-LR Check Samples

Introduction

ELISA methods for Microcystin analysis are employed in many laboratories for the analysis of drinking and recreational waters and other matrices. The use of check samples with each run ensures that the analysis/dilutions have sufficient accuracy, precision, and specificity.

The Abraxis Microcystin-LR Check Sample Set contains 3 vials of lyophilized Microcystin-LR and a bottle of Reconstitution Diluent Solution.

Reagents Provided

3 vials of Microcystin-LR, lyophilized
1 vial of Reconstitution Diluent Solution, 30 mL

Sample Preparation

For use with the Microcystins-ADDA, Microcystins-ADDA Enhanced Sensitivity (ES), and Microcystins-DM Plate Kits, reconstitute each sample with 5.0 mL of the Reconstitution Solution (provided), vortex, and allow to sit for 5-10 minutes.

For use with the Microcystins Strip Kits for Finished Drinking Water, Source Drinking Water, and Recreational Water, reconstitute each sample with 5.0 mL of deionized or distilled water, vortex, and allow to sit for 5-10 minutes.

Note: Check samples which have been reconstituted with the Reconstitution Diluent Solution should not be used with the Microcystins Strip Kits as this will adversely affect results. Use only check samples which have been reconstituted with deionized or distilled water to obtain accurate results with the Microcystins Strip Kits.

Dilute sample C with Diluent Solution or deionized or distilled water to meet the desired QA program levels. The result obtained in the ELISA should be multiplied by the appropriate dilution factor to obtain the final concentration.

Sample Storage

Store samples refrigerated at 2-8°C for up to 1 week. For prolonged storage, aliquot and store frozen.

Expected Values

| | |
|----------|------------------------|
| Sample A | non-detect (<0.15 ppb) |
| Sample B | 2.0 +/- 0.5 ppb |
| Sample C | 20 +/- 5 ppb |

It is recommended that each laboratory establish individual recovery limits.

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